

WHAT IS CLAIMED IS:

1. An electrophotographic apparatus comprising:
a photosensitive member which comprises a
surface layer formed on a surface thereof, and a
5 photosensitive layer, a sum of a thickness of the
photosensitive layer and a thickness of the surface
layer being 25 μm or lower;

exposing means for exposing the photosensitive
member in accordance with a digital image signal in
10 order to form an electrostatic image on the
photosensitive member;

developing means for forming a developer image
on the photosensitive member by developing the
electrostatic image by a developer; and

15 cleaning means for cleaning a residual
developer from the photosensitive member after the
developer image is transferred to an image receiving
member, which comprises a cleaning brush brought into
contact with the photosensitive member,

20 wherein if a brush density of the cleaning
brush is D (number/ mm^2), and an area of a pixel of the
electrostatic image is S (mm^2/dot), $D \times S \geq 0.06$ and $D \leq 200$
are satisfied.

25 2. The electrophotographic apparatus according
to claim 1,

wherein the cleaning means comprises a cleaning

blade for removing the residual developer from the photosensitive member on a downstream side of the cleaning brush in a moving direction of the photosensitive member.

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3. The electrophotographic apparatus according to claim 1,

wherein the surface layer contains a compound obtained by polymerizing or bridging, and curing a
10 compound which has an unsaturated polymeric functional group or a hole transport compound.

4. The electrophotographic apparatus according to claim 1,

15 wherein the photosensitive layer comprises a non-single crystal material in which a silicon atom is a matrix.

5. The electrophotographic apparatus according to claim 1,

20 wherein a thickness of a fiber of the cleaning brush is 20 to 50 μm .

6. The electrophotographic apparatus according to claim 1,

25 wherein the developer comprises toner, and a shape factor SF-1 of the toner is 100 to 150, a shape

factor SF-2 thereof is 100 to 140, and a volume average particle diameter thereof is 5 to 8 μm .

7. The electrophotographic apparatus according
5 to claim 1,

wherein the exposing means irradiates the photosensitive member with a laser beam.

8. The electrophotographic apparatus according
10 to claim 1,

wherein the sum of the thickness of the photosensitive layer and the thickness of the surface layer is 20 μm or lower.

9. The electrophotographic apparatus according
15 to claim 1,

wherein the brush density D (number/ mm^2) satisfies $D \geq 15.5$.

10. The electrophotographic apparatus according
20 to claim 1,

wherein the cleaning brush comprises a brush fiber in which a weaving degree is 0.3×10^{-6} kg/m to 2.2×10^{-6} kg/m.

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11. The electrophotographic apparatus according to claim 1,

the cleaning brush supplies a lubricant to an image bearer.

12. The electrophotographic apparatus according
5 to claim 1 or 11,

further comprising a scraper member for
scraping off the developer from the cleaning brush,

wherein if the incursion amount of the cleaning
brush with respect to the image bearer is α (mm), and
10 the incursion amount of the cleaning brush with
respect to the scraper member is β (mm), $\alpha \geq \beta$ is
satisfied.

13. The electrophotographic apparatus according
15 to claim 11,

wherein the lubricant contains particles of
primary particle diameters of 10 to 100 nm.

14. The electrophotographic apparatus according
20 to claim 11,

wherein the lubricant is prepared by mixing an
additive 5 to 20 wt% with toner 100 wt%.